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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant: Shuo-Yen Robert Li

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Confirmation No.: 1794

Group Art Unit: 2664

Application No.: 09/882,760

Examiner: Andrew Chung Cheung Lee

Filing Date: June 15, 2001

Attorney Docket No.: 681954-107US

Title: A PACKET SWITCH WITH ONE-STOP BUFFER IN MEMORY WITH MASSIVE  
PARALLEL ACCESS

## STATEMENT UNDER 37 CFR §3.73(b)

Industrial Technology Research Institute, a corporation, states that it is:

- ☒ the assignee of the entire right, title, and interest; or
- ☐ an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is \_\_\_\_\_% in the patent/application identified above by virtue of either:
- ☐ An assignment from the inventor of the application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_, Frame \_\_\_, a copy thereof is attached.

OR

- ☒ A chain of title from the inventor, of the application identified above, to the current assignee as shown below:
1. From: Shuo-Yen Robert Li and Jian Zhu To: Ecomm, Inc.  
The document was recorded in the Patent and Trademark Office at Reel 011942 Frame 0773.
  2. From: Ecomm, Inc. To: Industrial Technology Research Institute  
The assignment was executed on September 9, 2004 and submitted for recordation to the Patent and Trademark Office on October 8, 2004. A copy of the executed Assignment is attached.
  3. From: \_\_\_ To: \_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_, Frame \_\_\_, a copy thereof is attached

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned attorney of record is empowered to sign this statement on behalf of the assignee.

April 18, 2005  
Date

Martin G. Belisario

**MARTIN G. BELISARIO**

Attorney of Record

Reg. No. 32,886

Direct Dial: 215-965-1303

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**GENERAL REVOCATION AND POWER OF ATTORNEY TO PROSECUTE PATENT APPLICATIONS BEFORE THE U.S. PATENT AND TRADEMARK OFFICE**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR § 3.73(b).

Industrial Technology Research Institute, having an address of, Bldg. 51, 195 Chung Hsing Road, Sec. 4, Chutung, Hsinchu, Taiwan, R.O.C., by its undersigned representative, hereby appoints the registered attorneys and agents associated with Customer No. 000570 as its attorneys/agents with full power of substitution and revocation to represent Industrial Technology Research Institute before the U.S. Patent and Trademark Office ("USPTO") in connection with any and all patent applications assigned only to Industrial Technology Research Institute according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

The undersigned states that he/she is authorized and empowered to sign this document on behalf of Industrial Technology Research Institute.

Please address all correspondence to Customer No. 000570, namely, **AKIN GUMP STRAUSS HAUER & FELD LLP**, One Commerce Square, 2005 Market Street, Suite 2200, Philadelphia, PA 19103. Please direct all communications and telephone calls to William W. Schwarze at (215) 965-1270 (telephone) or (215) 965-1210 (facsimile).

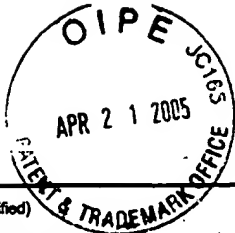
Respectfully submitted,

April 11, 2005  
Date

Diane Chen  
Signature  
Diane Chen

\_\_\_\_\_  
Typed or Printed Name  
Deputy Director of Patent Management Div.

\_\_\_\_\_  
Title



Docket No.: ITRI

FORM PTO-1595 (Modified)  
(Rev. 03-01)  
OMB No. 0651-0027 (exp. 5/31/2002)  
P02A/REV03

## RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

## PATENTS ONLY

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Ecomm, Inc.

## 2. Name and address of receiving party(ies):

Name: Industrial Technology Research Institute

Address: C100 Technology Transfer and Services Center

Bldg. 51, No. 195

Sec. 4 Chung-Hsing Road Chutung

City: Hsinchu

State/Prov.: \_\_\_\_\_

Country: TAIWAN, R.O.C.

ZIP: 310

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

Additional name(s) &amp; address(es)

☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_

Execution Date: September 9, 2004

## 4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.

Filing date

B. Patent No.(s)

See Attached  
Schedule A

Additional numbers

☒ Yes ☐ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Lawrence D. Eisen

Registration No. 41,009

Address: SHAW PITTMAN LLP

1650 Tysons Boulevard

City: McLean

State/Prov.: VA

Country: USA

ZIP: 22102

## 6. Total number of applications and patents involved:

23

## 7. Total fee (37 CFR 3.41):.....\$ 920.00

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

## 8. Deposit account number:

50-1390

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Lawrence D. Eisen, Reg. No. 41,009

Name of Person Signing

Signature

October 8, 2004

Date

## ASSIGNMENT

IN CONSIDERATION of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, **Ecomm, Inc.**, of the Cayman Islands (a.k.a. E-Comm, Ltd.), its successors, assigns and legal representatives (hereinafter collectively **Ecomm**), intending to be legally bound:

HEREBY sells, assigns and transfers to Industrial Technology Research Institute (hereinafter **ITRI**), of Chutung, Hsinchu, Taiwan, R.O.C., the entire right, title and interest in and to those inventions identified in those United States patent applications and patents, which are identified in Schedule A attached to this ASSIGNMENT; in and to those applications and patents; in and to all divisional, continuation, substitute, renewal, reissue, and all other corresponding applications for Patent which have been or shall be filed in the United States and all other foreign countries; in and to the improvements of those inventions; in and to the right to claim in any countries the right of priority from those applications and patents under international law or under the laws of any particular country (such as, without limitation, the right of priority provided by the International Convention for the Protection of Industrial Property, as amended); and in and to all original and reissued patents which have been or shall be issued in the United States and all other foreign countries on those improvements;

COVENANTS with **ITRI** that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed have been made to others by **Ecomm**, and that full right to convey the same as herein expressed is possessed by **Ecomm**;

COVENANTS AND AGREES to assist and cooperate with **ITRI** in the preparation and prosecution of any applications of those inventions and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any applications or Patent of those inventions and further to execute and deliver to **ITRI** any and all additional papers that may be requested by **ITRI** for the purpose of implementing the terms of this ASSIGNMENT;

AUTHORIZES AND REQUESTS that any and all patents for those inventions be issued to **ITRI** in the United States and in all other foreign countries, or to such nominees as **ITRI** may designate, as the Assignee of **ITRI**'s entire right, title, and interest; and

CONSENTS that a copy of this ASSIGNMENT shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any particular country for any purpose and more particularly in proof of the right of ITRI to apply for patent or other form of protection for those inventions and to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended.

Ecomm, Inc.

Signature: 

Date: ~~August~~, 2004 9/9/2004

Name: Robert Hsieh

Title: Chief Executive Officer

## Schedule A

Filing Date	Title	Inventors	Application Number	Publication Number	Patent Number
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE COMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,104	US 2002-0031121 A1	
06-15-01	CONFIGURING EQUIVALENT MULTI-STAGE INTERCONNECTION NETWORKS IN THE BIT-PERMUTING STYLE	Shuo-Yen Robert Li (李碩彥) Lu Wa Chiang (蔣路樺)	09/882,113	US 2002-0031118 A1	
06-15-01	SWITCHING CONCENTRATOR	Shuo-Yen Robert Li (李碩彥)	09/882,439	US 2001-0055304 A1	
06-15-01	SELF-ROUTING DEVICE FOR SWITCHING PACKETS OF DIFFERENT LENGTHS	Shuo-Yen Robert Li (李碩彥)	09/882,317	US 2001-0053157 A1	
06-15-01	PACKET SWITCH WITH ONE-STOP BUFFER IN MEMORY WITH MASSIVE PARALLEL ACCESS	Shuo-Yen Robert Li (李碩彥) Jian Zhu (朱健)	09/882,760	US 2001-0055304 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE DECOMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,133	US 2003-0063602 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE EXPANDER TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,087	US 2002-0039363 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED COMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,761	US 2002-0094151 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED DECOMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/881,827	US 2002-0031117 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED EXPANDER TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,129	US 2002-0031110 A1	

Filing Date	Title	Inventors	Application Number	Publication Number	Patent Number
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE CIRCULAR-UNIMODAL TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,099	US 2002-0037005 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UNIMODAL-CIRCULAR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,202	US 2002-0027904 A1	6,657,998
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE CIRCULAR EXPANDER TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,139	US 2003-0086420 A1	
06-15-01	GENERALIZED DIVIDE-AND-CONQUER NETWORKS	Shuo-Yen Robert Li (李碩彥)	09/882,423	US 2002-0097714 A1	
06-15-01	GENERAL SELF-ROUTING CONTROL MECHANISM OVER BIT-PERMUTING SWITCHING NETWORKS	Shuo-Yen Robert Li (李碩彥)	09/882,005	US 2002-0051447 A1	
06-15-01	SELF-ROUTING CONTROL MECHANISM OVER MULTISTAGE INTERCONNECTION NETWORKS OF CONCENTRATORS	Shuo-Yen Robert Li (李碩彥)	09/882,328	US 2002-0118677 A1	
06-15-01	MULTICAST CONCENTRATORS	Shuo-Yen Robert Li (李碩彥)	09/882,413	US 2003-0053456 A1	
06-15-01	GENERAL SELF-ROUTING MECHANISM FOR MULTICASTING CONTROL OVER BIT-PERMUTING SWITCHING NETWORKS	Shuo-Yen Robert Li (李碩彥)	09/882,075	US 2002-0024951 A1	
06-15-01	PHYSICAL IMPLEMENTATION OF SWITCHING FABRICS CONSTRUCTED FROM RECURSIVE 2-STAGE INTERCONNECTION	Shuo-Yen Robert Li (李碩彥)	09/882,410	US 2002-0093950 A1	
06-15-01	ROUTING SCHEMES FOR PACKET SWITCHING NETWORKS	Shuo-Yen Robert Li (李碩彥) Jian Zhu (朱鍵) Chu Man Lau (劉主民)	09/881,870	US 2004-0066799 A1	



Filing Date	Title	Inventors	Application Number	Publication Number	Patent Number
		Wan Lam (林雲)			
06-15-01	MULTISTAGE INTERCONNECTION NETWORKS OF MULTICAST CONCENTRATORS WITH SELF-ROUTING CONTROL MECHANISM	Shuo-Yen Robert Li (李碩彥)	09/882,112	US 2002-0031124 A1	
02-23-02	SCALABLE 2-STAGE INTERCONNECTIONS	Jian Zhu (朱鍵) Shuo-Yen Robert Li (李碩彥) Lu Wa Chiang (蔣路樺)	10/082,449	US 2003-0112797 A1	
02-23-02	OPTIMIZING SWITCHING ELEMENT FOR MINIMAL LATENCY	Jian Zhu (朱鍵) Shuo-Yen Robert Li (李碩彥)	10/082,450	US 2003-0118054 A1	